

CPCI-100A

Two slot IndustryPack Carrier for 3U
CompactPCI

Features

- Two IndustryPack slots on a 3U CompactPCI board
- I/O via two 50-pin Champ50 shielded connectors (-FP version)
- I/O via CompactPCI backplane J2 connector (-BP version)
- 8 MHz IndustryPack clock for each slot
- Two LEDs for IndustryPack access and one for power monitor
- Filtered power rails and resettable fuses
- Interrupt acknowledge space for retrieving IndustryPack vectors
- Reduced memory-map version available by special order



SBS' CPCI-100A IndustryPack carrier board provides two IndustryPack slots on a 3U CompactPCI card. Two versions are available: the CPCI-100A-FP provides shielded 0.8mm Champ50 front panel connectors for IndustryPack I/O; the CPCI-100A-BP provides IndustryPack I/O via the CompactPCI J2 connector. A rear panel transition module, the BIO-1, is available from SBS.

The CPCI-100A provides an 8 MHz IndustryPack clock for each slot. The standard 8 MB memory space is available for each IndustryPack site. High-speed 32-bit PCI host address space permits desirable linear mapping and fixed address partitions of memory, I/O and ID spaces for each IndustryPack module.

The CPCI-100A uses a PLX PCI9080 controller as the PCI bus interface chip and Altera FPGA logic that provides fully configurable PCI interrupt vector space. The PCI bus interface supports 5.0V signaling levels.

The CPCI-100A meets the PCI specification and conforms to the VITA-4 IndustryPack Logic Interface Specification. This guarantees compatibility with a wide range of IndustryPacks.



CPCI-100A

Specifications

Form Factor

- 3U CompactPCI

PCI

- PCI Specification, Rev. 2.1

PCI Controller

- PLX PCI9080

IndustryPack Slots

- Two slots
- Supports two single-wide or one double-wide IndustryPack

IndustryPack Clock

- 8 MHz per IndustryPack slot

IndustryPack Features Supported

- I/O space, ID space, memory space, interrupt acknowledge cycles

IndustryPack Memory Size

- 8 MB per IndustryPack

Carrier Board Memory Space

- 64 MB

IndustryPack Interrupts Supported

- Int0* and Int1* for each slot

PCI Bus Interrupts Generated

- INTA# only

I/O Access

- FP: One Champ50 .08mm shielded connector per IndustryPack slot on front panel
- BP: Via CompactPCI J2

Indicators

- One green LED per slot for CPU access on PCB
- One amber LED for power monitor on PCB

Fuses

- Resettable 2.5A @ 20° C for 5 VDC
- Resettable 2.0A @ 20° C for +/-12 VDC

Dimensions

- 160 mm x 100 mm

Weight

- 0.17 kg (0.35 lb)

Power Requirements

- +5V VDC, 200 mA typ
- +12V DC, 10 mA typ
- 12V DC, 10 mA typ
- Extra power required for IndustryPack modules

Temperature

- Operating: 0° to 70° C
- Storage: -40° to 85° C

Relative Humidity

- 5% to 95% non-condensing

Model Number	Configuration
CPCI-100A-FP	2 slot 3U CompactPCI IndustryPack carrier with front I/O
CPCI-100A-BP	2 slot 3U CompactPCI IndustryPack carrier with rear I/O

Associated Product	Description
BIO-1	CompactPCI rear panel transition module for CPCI-100A-BP
C-HD50M-CM50M	1-meter cable HD50 male to Champ50 male
IP-TERM-HD50	50-pin screw terminal block with HD50 female

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